## In the Claims

Please cancel claims 1-20 without prejudice, and add new claims 17-32, as follows:

Claims 1-20 (cancelled).

Claim 21 (new). Apparatus comprising an optical fibre having a waveguide and at least one stress applying region, wherein:

the waveguide is defined by a numerical aperture;

the stress applying region is defined by a depressed refractive index;

the optical fibre is configured such that the waveguide supports at least two polarised fundamental modes, two polarised first second-order modes, and two polarised second second-order modes;

the waveguide comprises a gain medium; and

the stress applying region, the waveguide and the disposition of the gain medium are such as to provide preferential guidance to at least one of the modes at an operating wavelength.

Claim 22 (new). The apparatus of claim 21 wherein the optical fibre is bent.

Claim 23 (new). The apparatus of claim 21 wherein the gain medium comprises one or more rare-earth dopants.

Claim 24 (new). Apparatus according to claim 23 in which the rare earth dopant comprises one or more of Ytterbium, Erbium, Neodymium, Praseodymium, Thulium, Samarium, Holmium, Europium, Terbium, and Dysprosium.

1	Claim 25 (new). The apparatus of claim 21 wherein at least one of the
2	fundamental modes, the first second-order modes, and the second second-order
3	modes is leaky at the operating wavelength.
4	
5	Claim 26 (new). The apparatus of claim 21 wherein the optical fibre is configured
6	to operate as a single-polarisation optical fibre at the operating wavelength.
7	
8	Claim 27 (new). The apparatus of claim 21 wherein the optical fibre is defined by
9	a length, and is tapered along its length.
10	
11	Claim 28 (new). The apparatus of claim 21 wherein the waveguide is defined by
12	a length, and is tapered along its length.
13	
14	Claim 29 (new). The apparatus of claim 21 wherein the numerical aperture
15	corresponds to an index difference less than 0.0035.
16	
17	Claim 30 (new). The apparatus of claim 21 wherein the numerical aperture
18	corresponds to an index difference less than 0.003.
19	
20	Claim 31 (new). The apparatus of claim 21 wherein the numerical aperture
21	corresponds to an index difference less than 0.0025.
22	
23	Claim 32 (new). The apparatus of claim 21 wherein the numerical aperture
24	corresponds to an index difference less than 0.002.
25	

The apparatus of claim 21 wherein the optical fibre comprises a

Claim 33 (new).

photosensitive region.

1	Claim 34 (new). The apparatus of claim 33 wherein which the photosensitive
2	region is at least partly in the stress applying region.
3	
4	Claim 35 (new). Apparatus according to claim 13 in which the photosensitive
5	region is at least partly in the waveguide.
6	
7	Claim 36 (new). The apparatus of claim 21 wherein the optical fibre is defined by
8	a stimulated Brillouin scattering threshold, and the optical fibre has been exposed to
9	ultraviolet radiation at least partly along its length in order to increase the stimulated
10	Brillouin scattering threshold.
11	
12	Claim 37 (new). The apparatus of claim 21 wherein the optical fibre is defined by
13	a stimulated Brillouin scattering threshold, and the optical fibre has been exposed to
14	heat treatment at least partly along its length in order to increase the stimulated
15	Brillouin scattering threshold.
16	
17	Claim 38 (new). The apparatus of claim 21 wherein the apparatus is in the form
18	of an optical amplifying device.
19	
20	Claim 39 (new). The apparatus of claim 38 wherein the optical amplifying device
21	is configured to provide single-polarisation operation.
22	
23	Claim 40 (new). The apparatus of claim 38 wherein the optical amplifying device
24	is an optical amplifier, a laser, a master oscillator power amplifier, or a source of
25	amplified spontaneous emission.

(End of Amendments.)